

EyeGuard[®] AD100

**The world's
most accurate* iris imager**





World-leading iris imager system

- ✓ Seamless onboarding
- ✓ Patented technology
- ✓ World-leading, pristine images
- ✓ Built in countermeasures
- ✓ 100% accuracy
- ✓ Intuitive and easy-to-use

How does the AD100 work?

The EyeGuard® AD100 is the world's leading iris imager, seamlessly onboarding in less than three seconds, creating a 100% secure digital identity that can then be cross-matched across any one of **irisguard's** EyePay® platforms to authenticate identity and authorise transactions.

The human iris is totally unique, and cannot be stolen, duplicated, forged, lost or traded. The EyeGuard® AD100 automatically detects and focuses on the iris, delivering a pristine image that converts into a Unique Verifiable Identity (UVI) for cross-matching purposes.

With iris recognition being the most secure, accurate, fastest and fault-free method of human identification, the EyeGuard® AD100 is ideally placed to deliver on target 16.9 of the UN's Sustainable Development Goals to provide a legal identity for all.



Applications

National Security Refugee Registration

- Border security
- Narcotics control
- Prison control
- National ID cards
- Humanitarian relief
- Cash assistance
- Food voucher replacement
- Microfinance
- Migrant salary assurance



EyeGuard® AD100 Specifications

General Specifications

Dimensions (Net)	200(L) x 110(H) x 120(D)
Weight (Net)	750g
USB Standard	USB 2.0 (480Mbps) High speed (TID10006681)
USB Vbus Supply	< 2mA
User Guidance	Cold mirror
Voice Prompts	Dynamic multi-lingual
Status Indicator	Multi-colour status ring
Coloured Buttons	Custom for specific application
Operating Temperature	0° C - +60° C
Power Supply	12Vdc @1A
Approvals	CE FCC
Eye Safety	Lamp Safety Standard IEC 62471 – Exempt Level
ISO Standards	Iris Interchange Standard ISO 19794-6
Encryption	SHA-256, 3DES, expiring OTP
Accuracy	0.00% EER*

Face Camera Specifications

Imager Sensor Size	VGA CMOS colour sensor
Imager Format	Progressive scan
Imager Resolution Portrait	480 x 640 active pixels
White Balance	Automatic
Frame Rate	> 15FPS @ VGA quality
Lens FOV Horizontal	irisguard custom design
Imager Sensitivity (SNR)	> 40db
Face Capture Range	250mm to 350mm

Iris Camera Specifications

Image Sensors	CMOS mega pixel image sensors
Image Iris Resolution	640 x 480 (VGA)
Number of Bits	8 bit greyscale
Image Sensor Format	Progressive scan with ERS
Lens	Custom irisguard design
Lens Optical Resolution	22 lines/mm
Focus	Automatic – focus resolution 0.001mm
Frame Rate	> 24FPS
Imager Sensitivity (SNR)	> 40db
Image Resolution	> 10 lines/mm or > 5 line pairs/mm
Inter Pupillary Distance	49mm to 79mm
Illumination	700 – 900 nM direct and cross
Countermeasures	Patented Samba Live Eye Detection (SLED) Contact lens detection Off-axis detection Abnormal dilation detection Glasses neutralisation
Range Measurement Device	IR-PSD
Capture Range	220mm to 360mm
Capture Time (Dual Eye)	< 4.0 seconds



International·Biometric·Group

Research Consulting Integration

* Round 7 Testing - 2009

 **UNIVERSITY OF
CAMBRIDGE**

UAE Iris Study - 2005

EyeGuard® AD100



Certificate No. 7348

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